

Sheet 1 of 10

Form PTO-1449 (Modified)

Atty. Docket No.
27/281Application No.
10/577,858INFORMATION DISCLOSURE CITATION
IN AN APPLICATION
(USE SEVERAL SHEETS IF NECESSARY)Applicant:
Shlomo Ruschin et alFiling Date:
28-Apr-2006

Group Art Unit:

U.S. PATENT DOCUMENTS

	EX. INITIAL	DOCUMENT NUMBER	DATE	NAME	CLASS	SUB- CLASS	FILING DATE
AA		2002/0048289	Apr 2002	Atanackovic et al.			
AB							
AC							
AD							
AE							
AF							
AG							
AH							
AI							

FOREIGN PATENT DOCUMENTS

		DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUB- CLASS	TRANSLATION	
							YES	NO
AJ								
AK								
AL								

OTHER ART (Including Author, Title, Date, Pertinent Pages, Etc.)

AM		Alexander Torchigin and Sergey Torchigin, "One dimensional inhomogeneous photonic bandgap structures based on tapered fibers." J. Opt. A: Pure Appl. Opt. (2002) 274-282.22 (March 2002 (22.03.2002)
AN		W. Both, R. Rimpler. "Effect of Homogeneous Stress and Temperature Distribution in A Laser Diode on the Pulsation" pp. 330-332. 5 NOV 1990 (05.10.1990)
AO		Pierre Muret and Christopher Saby. "Band Bending, electronic affinity and density of states at several (100) surfaces of a boron-doped homoepitaxial Diamond Thin Films", p. 1-7. 30 Sept 2003

EXAMINER

DATE CONSIDERED

EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609; Draw line through citation if not in conformation and not considered. Include copy of this form with next communication to applicant.

Form PTO-1449 (Modified) INFORMATION DISCLOSURE CITATION IN AN APPLICATION (USE SEVERAL SHEETS IF NECESSARY)				Atty. Docket No. 27/281		Application No. 10/577,858	
				Applicant: Shlomo Ruschin et al			
				Filing Date: 28-Apr-2006		Group Art Unit:	
U.S. PATENT DOCUMENTS							
	EX. INITIAL	DOCUMENT NUMBER	DATE	NAME	CLASS	SUB- CLASS	FILING DATE
BA							
BB							
BC							
BD							
BE							
BF							
BG							
BH							
BI							
FOREIGN PATENT DOCUMENTS							
		DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUB- CLASS	TRANSLATION
							YES NO
BJ							
BK							
BL							
OTHER ART (Including Author, Title, Date, Pertinent Pages, Etc.)							
BM		Mark Csele Fundamentals of Light Sources and Lasers. Copyright 2004 John Wiley & Sons, Inc. pp. 117-158, 2004					
BN		"Temperature Dependence of the Indirect Energy Gap in Crystalline Silicon" V. Alex, S.Finkbeiner, J. Weber, J. Appl. Phys. 79, p 6943 (1996)					
BO		"Gaining Light From Silicon," Leigh Canham; Nature, , Vol. 408, pp 411-412 (2000)					
EXAMINER					DATE CONSIDERED		
EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609; Draw line through citation if not in conformation and not considered. Include copy of this form with next communication to applicant.							

Form PTO-1449 (Modified) INFORMATION DISCLOSURE CITATION IN AN APPLICATION (USE SEVERAL SHEETS IF NECESSARY)				Atty. Docket No. 27/281		Application No. 10/577,858			
				Applicant: Shlomo Ruschin et al					
				Filing Date: 28-Apr-2006		Group Art Unit:			
U.S. PATENT DOCUMENTS									
	EX. INITIAL	DOCUMENT NUMBER	DATE	NAME	CLASS	SUB- CLASS	FILING DATE		
CA									
CB									
CC									
CD									
CE									
CF									
CG									
CH									
CI									
FOREIGN PATENT DOCUMENTS									
		DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUB- CLASS	TRANSLATION		
							<table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 50%; text-align: center;">YES</td> <td style="width: 50%; text-align: center;">NO</td> </tr> </table>	YES	NO
YES	NO								
CJ									
CK									
CL									
OTHER ART (Including Author, Title, Date, Pertinent Pages, Etc.)									
CM		"Infrared to Visible Up-Conversion Using GaP Light-Emitting Diodes" W. Eisfeld, U. Werling, and W. Prettl, Appl. Physics Lett. Vol 42, pp. 276-278 (9183)							
CN		"Optical Absorption Coefficient of Silicon et al" ; G.E. Jellison. Kr. Lowndes. D.H. Lowndes, Appl. Phys. Lett. Vol. 47; p 594 (1982)							
CO		"Gasdynamic Lasers" S.A. Losev, (Springer-Verlag Berlin, 1981)							
EXAMINER					DATE CONSIDERED				
EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609; Draw line through citation if not in conformation and not considered. Include copy of this form with next communication to applicant.									

Form PTO-1449 (Modified)				Atty. Docket No. 27/281		Application No. 10/577,858	
INFORMATION DISCLOSURE CITATION IN AN APPLICATION (USE SEVERAL SHEETS IF NECESSARY)				Applicant: Shlomo Ruschin et al			
				Filing Date: 28-Apr-2006		Group Art Unit:	
U.S. PATENT DOCUMENTS							
	EX. INITIAL	DOCUMENT NUMBER	DATE	NAME	CLASS	SUB- CLASS	FILING DATE
DA							
DB							
DC							
DD							
DE							
DF							
DG							
DH							
DI							
FOREIGN PATENT DOCUMENTS							
		DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUB- CLASS	TRANSLATION
							YES NO
DJ							
DK							
DL							
OTHER ART (Including Author, Title, Date, Pertinent Pages, Etc.)							
DM		"Applied Physics Letter" R. Normandin, D.C. Houghton, M. Simard-Normandin, and Y. Zhang. Canadian. Journal of Phys. 66, 833 (1988)					
DN		L. Pavesi, Proceeding of SPIE – Vol. 4997, 206-220 (2003) ' A Review of Various Approaches to Silicon Laser"					
DO		Book by J.F. Ready, "Effect of High-Power Laser Radiation" (Academic Press, 1971)					
EXAMINER				DATE CONSIDERED			
EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609; Draw line through citation if not in conformation and not considered. Include copy of this form with next communication to applicant.							

Form PTO-1449 (Modified)				Atty. Docket No. 27/281		Application No. 10/577,858	
INFORMATION DISCLOSURE CITATION IN AN APPLICATION (USE SEVERAL SHEETS IF NECESSARY)				Applicant: Shlomo Ruschin et al			
				Filing Date: 28-Apr-2006		Group Art Unit:	
U.S. PATENT DOCUMENTS							
	EX. INITIAL	DOCUMENT NUMBER	DATE	NAME	CLASS	SUB- CLASS	FILING DATE
EA							
EB							
EC							
ED							
EE							
EF							
EG							
EH							
EI							
FOREIGN PATENT DOCUMENTS							
		DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUB- CLASS	TRANSLATION
							YES NO
EJ							
EK							
EL							
OTHER ART (Including Author, Title, Date, Pertinent Pages, Etc.)							
EM		‘Modulation of Light by Light in Silicon-on-Insulator Waveguides’ ; Appl. Physics Lett. Vol. 83. No 25, pp 5151-5153 (2003); S. Stepanov and S. Ruschin					
EN		Book by : S.M. Sze, “Physics of Semiconductor Devices, 2 nd Ed.) (New York: Wiley 1981)					
EO		Optical Gain in Material With Indirect Transitions”; T. Trupke, M.A. Green and P.Wurfel; Journal of Applied Physics Vol 93, No. 11, PP. 9058-9061 (2003)					
EXAMINER				DATE CONSIDERED			
EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609; Draw line through citation if not in conformation and not considered. Include copy of this form with next communication to applicant.							

Form PTO-1449 (Modified)				Atty. Docket No. 27/281		Application No. 10/577,858	
INFORMATION DISCLOSURE CITATION IN AN APPLICATION (USE SEVERAL SHEETS IF NECESSARY)				Applicant: Shlomo Ruschin et al			
				Filing Date: 28-Apr-2006		Group Art Unit:	
U.S. PATENT DOCUMENTS							
	EX. INITIAL	DOCUMENT NUMBER	DATE	NAME	CLASS	SUB- CLASS	FILING DATE
FA							
FB							
FC							
FD							
FE							
FF							
FG							
FH							
FI							
FOREIGN PATENT DOCUMENTS							
		DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUB- CLASS	TRANSLATION
							YES NO
FJ							
FK							
FL							
OTHER ART (Including Author, Title, Date, Pertinent Pages, Etc.)							
FM		"Influence of pn Junction Formation et al." Physical Review B, Vol 64, 132202-1---033202-4 (2001), by B.J. Pawlak and N.Q. Vinh, T. Gregorkiewicz and K. Thonke					
FN		"Generation, Amplification and Detection of Infra and Optical et al." N.G. Basov, O.N. Krokhin and Yu M. Popv, Sov Phys. Vol 3, No. 5 JETP 13, 845 (1961)					
FO		"Stimulated Raman Scattering in Silicon Waveguides" , R. Claps, D. Dimitropoulos, B. Jalali,, Electron. Lett. 38,1352 (2002)					
EXAMINER				DATE CONSIDERED			
EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609; Draw line through citation if not in conformation and not considered. Include copy of this form with next communication to applicant.							

Form PTO-1449 (Modified)				Atty. Docket No. 27/281		Application No. 10/577,858	
INFORMATION DISCLOSURE CITATION IN AN APPLICATION (USE SEVERAL SHEETS IF NECESSARY)				Applicant: Shlomo Ruschin et al			
				Filing Date: 28-Apr-2006		Group Art Unit:	
U.S. PATENT DOCUMENTS							
	EX. INITIAL	DOCUMENT NUMBER	DATE	NAME	CLASS	SUB- CLASS	FILING DATE
GA							
GB							
GC							
GD							
GE							
GF							
GG							
GH							
GI							
FOREIGN PATENT DOCUMENTS							
		DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUB- CLASS	TRANSLATION
							YES NO
GJ							
GK							
GL							
OTHER ART (Including Author, Title, Date, Pertinent Pages, Etc.)							
GM		"Coefficient Determination Related to Optical Gain et al." ; Hak-Seung Han, Se-Young Seo, Shin JH, Namkyoo Part, Appl. Phys. Lett. Vol. 81, No. 20, 3720-3722 (2002)					
GN		"Nanosecond Laser Amplification Via Degenerate Multiwave Mixing et al." I.C. Khoo, R. Normandin, Appl. Phys. Lett Vol. 52, p. 525 (1988)					
GO		"Photoluminescence From Gold Centre in Silicon" J. Mazzaschi , J.C. Brabant, B. Brousseau, J. Barran, J. Brousseau, F. Voillot and P. Bacuvier, Solid State Communications, Vol 39, Issue 10, pp. 1091-1092 (1981)					
EXAMINER				DATE CONSIDERED			
EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609; Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.							

Form PTO-1449 (Modified)				Atty. Docket No. 27/281		Application No. 10/577,858	
INFORMATION DISCLOSURE CITATION IN AN APPLICATION (USE SEVERAL SHEETS IF NECESSARY)				Applicant: Shlomo Ruschin et al			
				Filing Date: 28-Apr-2006		Group Art Unit:	
U.S. PATENT DOCUMENTS							
	EX. INITIAL	DOCUMENT NUMBER	DATE	NAME	CLASS	SUB- CLASS	FILING DATE
HA							
HB							
HC							
HD							
HE							
HF							
HG							
HH							
HI							
FOREIGN PATENT DOCUMENTS							
		DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUB- CLASS	TRANSLATION
							YES NO
HJ							
HK							
HL							
OTHER ART (Including Author, Title, Date, Pertinent Pages, Etc.)							
HM		"Light-Induced Radiative Recombination Centers et al.", J.I. Pankove and J.E. Berkeyheiser, Appl. Phys. Rev. B, Vol. 37(8), pp 705-706 (1980)					
HN		"Radiation Damage and Defects in Semiconductors: proceedings of the International Conference Organized by the Institute of Physics, held at the Univ. of Reading (1972) ; Author: Whitehouse, J.E.					
HO		"Dislocation -Related Photoluminescence in Silicon," R. Sauer, J. Weber, J. Stolz. E.R. Webek, K-H Kusters, and H.Alexander, Appl. Phys. A, Vol 36, No. 1, pp. 1-13 (1985)					
EXAMINER				DATE CONSIDERED			
EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609; Draw line through citation if not in conformation and not considered. Include copy of this form with next communication to applicant.							

Form PTO-1449 (Modified)				Atty. Docket No. 27/281		Application No. 10/577,858	
INFORMATION DISCLOSURE CITATION IN AN APPLICATION (USE SEVERAL SHEETS IF NECESSARY)				Applicant: Shlomo Ruschin et al			
				Filing Date: 28-Apr-2006		Group Art Unit:	
U.S. PATENT DOCUMENTS							
	EX. INITIAL	DOCUMENT NUMBER	DATE	NAME	CLASS	SUB- CLASS	FILING DATE
IA							
IB							
IC							
ID							
IE							
IF							
IG							
IH							
II							
FOREIGN PATENT DOCUMENTS							
		DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUB- CLASS	TRANSLATION
							YES NO
IJ							
IK							
IL							
OTHER ART (Including Author, Title, Date, Pertinent Pages, Etc.)							
IM		"Silicon Temperature Measurement by Infrared Absorption et al." J.C. Strum , C.M. Reeves, IEEE Trans. On Electron Devices Vol. 39, No. 1, page 81 (1992)					
IN		"Emissivity of Silicon at Elevated Temp." , P.J. Timans, J. Appl. Phys. , Vol 74 (10) , p. 6353-6364 (1993)					
IO		"Electrical and Optical Properties of Gold-Doped n-type Silicon", H. Weman, A. Henry, T. Begum, B. Monemar, O.O. Awadelkarim and J.L. Lindstrom, J. Appl. Phys. Vol. 65 (1) pp. 137-145 (1989)					
EXAMINER				DATE CONSIDERED			
EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609; Draw line through citation if not in conformation and not considered. Include copy of this form with next communication to applicant.							

Form PTO-1449 (Modified)				Atty. Docket No. 27/281		Application No. 10/577,858	
INFORMATION DISCLOSURE CITATION IN AN APPLICATION (USE SEVERAL SHEETS IF NECESSARY)				Applicant: Shlomo Ruschin et al			
				Filing Date: 28-Apr-2006		Group Art Unit:	
U.S. PATENT DOCUMENTS							
	EX. INITIAL	DOCUMENT NUMBER	DATE	NAME	CLASS	SUB- CLASS	FILING DATE
JA							
JB							
JC							
JD							
JE							
JF							
JG							
JH							
JI							
FOREIGN PATENT DOCUMENTS							
		DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUB- CLASS	TRANSLATION
							YES NO
JJ							
JK							
JL							
OTHER ART (Including Author, Title, Date, Pertinent Pages, Etc.)							
JM		Atanackovic, B. Petar, Marshall R. Larry; "Devices with Optical Gain in Silicon" See US Patent Application 2002/0048289					
JN							
JO							
EXAMINER				DATE CONSIDERED			
EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609; Draw line through citation if not in conformation and not considered. Include copy of this form with next communication to applicant.							